

Attachment A: Pre-CERCLA Screening Checklist/Decision Form

This form is used in conjunction with a site map and any additional information required by the EPA Region to document completion of a Pre-CERCLA Screening (PCS). The form includes a decision on whether a site should be added to the Superfund program's active site inventory for further investigation. Select from available dropdown values for fields marked with an asterisk *.

Region: 5 State/Territory: IN Tribe: _____
Click here for the [EPA Tribe Entity Mapping spreadsheet](#). EPA ID No. (If Available) _____

Site Name: Marquette Lagoons
 Other Site Name(s): _____

Site Location: 645 N Lake Street
 _____ (Street)
1 Gary Lake IN 46403 +
 Congressional District (City) (County) (State / Terr) (Zip+4)

If no street address is available: _____
 _____ (Township-Range) _____ (Section)

Checklist Preparer:
Daniel Walterman / Environmental Manager 09/27/2017
 _____ (Name / Title) _____ (Date)
Indiana Department of Environmental Management (317) 234-8824
 _____ (Organization) _____ (Phone)
100 N Senate Avenue N1101 DWalterm@idem.IN.gov
 _____ (Street) _____ (Email)
Indianapolis Marion IN 46204 +
 _____ (City) _____ (County) _____ (State / Terr) _____ (Zip+4)

Site Contact Info/Mailing Address: _____

CERCLA 105d Petition for Preliminary Assessment? No If Yes, Petition Date (mm/dd/yyyy): _____

RCRA Subtitle C Site Status: Is site in RCRAInfo? No If Yes, RCRAInfo Handler ID #: _____

Ownership Type*: Municipality Additional RCRAInfo ID #(s): _____

Site Type*: Other State ID #(s): _____

Site Sub-Type*: Contaminated sediment site with no identifiable sou Other ID #(s): _____

Federal Facility? No Federal Facility Owner*: (Make selection)

Formerly Used Defense Site (FUDS)? No Federal Facility Operator*: (Make selection)

Federal Facility Docket? No If Yes, FF Docket Listing Date (mm/dd/yyyy): _____

Federal Facility Docket Reporting Mechanism*: (Make selection)

Native American Interest? No If Yes, list Tribe: _____

Additional Tribe (s): _____

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Site Description

Use this section to briefly describe site background and conditions if known or (easily) available, such as: operational history; physical setting and land use; site surface description, soils, geology and hydrogeology; source and waste characteristics; hazardous substances/contaminants of concern; historical releases, previous investigations and cleanup activities; previous regulatory actions, including permitting and enforcement actions; institutional controls; and community interest.

Insert text here (if text exceeds size of text box, view all text on page 5):

There are three (3) portions of the Marquette Lagoons—East, Middle, and West—that serve as the headwaters for the east branch of the Grand Calumet River in Gary, Indiana. The area surrounding the Middle and East Lagoons is mainly wooded park property or residential neighborhoods. The western end of the West Lagoon is bordered by the U.S. Steel Corporation. The lagoons slowly flow to the west, and serve as a recreational waterway to local fishermen.

The lagoon sediment was sampled in September 2013 by the Indiana Department of Environmental Management as part of the Grand Calumet Sediment Sampling event. The investigation revealed detections of various contaminants, including polychlorinated biphenyls (PCBs), metals, and semi-volatile organic compounds (SVOCs). The greatest

Geospatial Information

Latitude: + 41.614996

Decimal Degree North (e.g., +38.859156)

Longitude: - 87.277644

Decimal Degree West (e.g., -77.036783)

Provide 4 significant digits at a minimum, more if your collection method generates them.

Except for certain territories in the Pacific Ocean, all sites in U.S. states and territories are located within the northern and western hemispheres and will have a positive latitude sign and negative longitude sign. The coordinate signs should be changed as necessary for sites in the southern and/or eastern hemispheres.

Point Description: Select the option below that best represents the site point for future reference and to distinguish it from any nearby sites.

- ☐ Geocoded (address-matched) Site Address
- ☐ Site Entrance (approximate center of curb-cut)
- ☒ Approximate Center of Site
- ☐ Other Distinguishing Site Feature (briefly describe below):

Point Collection Method: Check the method used to collect the coordinates above and enter the date of collection.

- ☒ Online Map Interpolation
- ☐ GPS (handheld, smartphone, other device or technology with accuracy range < 25 meters)
- ☐ GPS Other (accuracy range is ≥ 25 meters or unspecified)
- ☐ Address Matching: Urban
- ☐ Address Matching: Rural
- ☐ Other Method: _____

Collection Date (mm/dd/yyyy): 03/01/2017

POINT-SELECTION CONSIDERATIONS

- Often the best point is a feature associated with the environmental release or that identifies the site visually.
- Use the curb cut of the entrance to the site if there is a clear primary entrance and it is a good identifier for the overall location.
- The approximate center of the site (a guess at the centroid) is useful for large-area sites or where there are no appropriate distinguishing features.
- Use the geocoded address if that is the only or best option available, but if possible use something more representative for sites larger than 50 acres.

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Complete this checklist to help determine if a site should be added to the Superfund Active site inventory. See Section 3.6 of the PCS guidance for additional information.			
	YES	NO	Unknown
1. An initial search for the site in EPA's Superfund active, archive and non-site inventories should be performed prior to starting a PCS. Is this a new site that does not already exist in these site inventories?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is there evidence of an actual release or a potential to release?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Are there possible targets that could be impacted by a release of contamination at the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is there documentation indicating that a target has been exposed to a hazardous substance released from the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the release of a naturally occurring substance in its unaltered form, or is it altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the release from products which are part of the structure of, and result in exposure within, residential buildings or business or community structures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. If there has been a release into a public or private drinking water supply, is it due to deterioration of the system through ordinary use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Are the hazardous substances possibly released at the site, or is the release itself, excluded from being addressed under CERCLA?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the site being addressed under RCRA corrective action or by the Nuclear Regulatory Commission?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Is another federal, state, tribe or local government environmental cleanup program other than site assessment actively involved with the site (e.g., state voluntary cleanup program)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Is there sufficient documentation or evidence that demonstrates there is no likelihood of a significant release that could cause adverse environmental or human health impacts?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there other site-specific situations or factors that warrant further CERCLA remedial/integrated assessment or response?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Preparer's Recommendation: ☒ Add site to the Superfund active site inventory.☐ Do not add site to the Superfund active site inventory.

Please explain recommendation below:

PCS Summary and Decision Rationale

Use this section to summarize PCS findings and support the decision to add or not add the site to the Superfund active site inventory for further investigation. Information does not need to be specific but, where known, can include key factors such as source and waste characteristics (e.g., drums, contaminated soil); evidence of release or potential release; threatened targets (e.g., drinking water wells); key sampling results (if available); CERCLA eligibility; involvement of other cleanup programs; and other supporting factors.

Insert text here (if text exceeds size of text box, view all text on page 6):

Elevated concentrations of several contaminants, including PCBs, SVOCs, and metals, were discovered after sediment from the three (3) lagoon portions was sampled. The presence of these harmful contaminants and lack of additional data pose a human health risk. IDEM recommends this site for additional investigation under CERCLA to determine the source(s) and extent of contamination.

Site Assessor:

Daniel Waltherman / Daniel Walther

Print Name/Signature

9/27/17

Date

EPA Regional Review and Pre-CERCLA Screening Decision

Add site to the Superfund active site inventory for completion of a:

- ☒ Standard/full preliminary assessment (PA)
☐ Abbreviated preliminary assessment (APA)
☐ Combined preliminary assessment/site inspection (PA/SI)
☐ Integrated removal assessment and preliminary assessment
☐ Integrated removal assessment and combined PA/SI
☐ Other: _____

Do not add site to the Superfund active site inventory. Site is:

- ☐ Not a valid site or incident
☐ Being addressed by EPA's removal program
☐ Being addressed by a state cleanup program
☐ Being addressed by a tribal cleanup program
☐ Being addressed under the Resource Conservation and Recovery Act
☐ Being addressed by the Nuclear Regulatory Commission
☐ Other: _____

EPA Regional
Reviewer:

DAVID BRAUNER / David M. Brauner

Print Name/Signature

10/26/17

Date

Site Description*(All text as entered on page 2)*

There are three (3) portions of the Marquette Lagoons—East, Middle, and West—that serve as the headwaters for the east branch of the Grand Calumet River in Gary, Indiana. The area surrounding the Middle and East Lagoons is mainly wooded park property or residential neighborhoods. The western end of the West Lagoon is bordered by the U.S. Steel Corporation. The lagoons slowly flow to the west, and serve as a recreational waterway to local fishermen.

The lagoon sediment was sampled in September 2013 by the Indiana Department of Environmental Management as part of the Grand Calumet Sediment Sampling event. The investigation revealed detections of various contaminants, including polychlorinated biphenyls (PCBs), metals, and semi-volatile organic compounds (SVOCs). The greatest contamination was found in the west end of the West Lagoon.

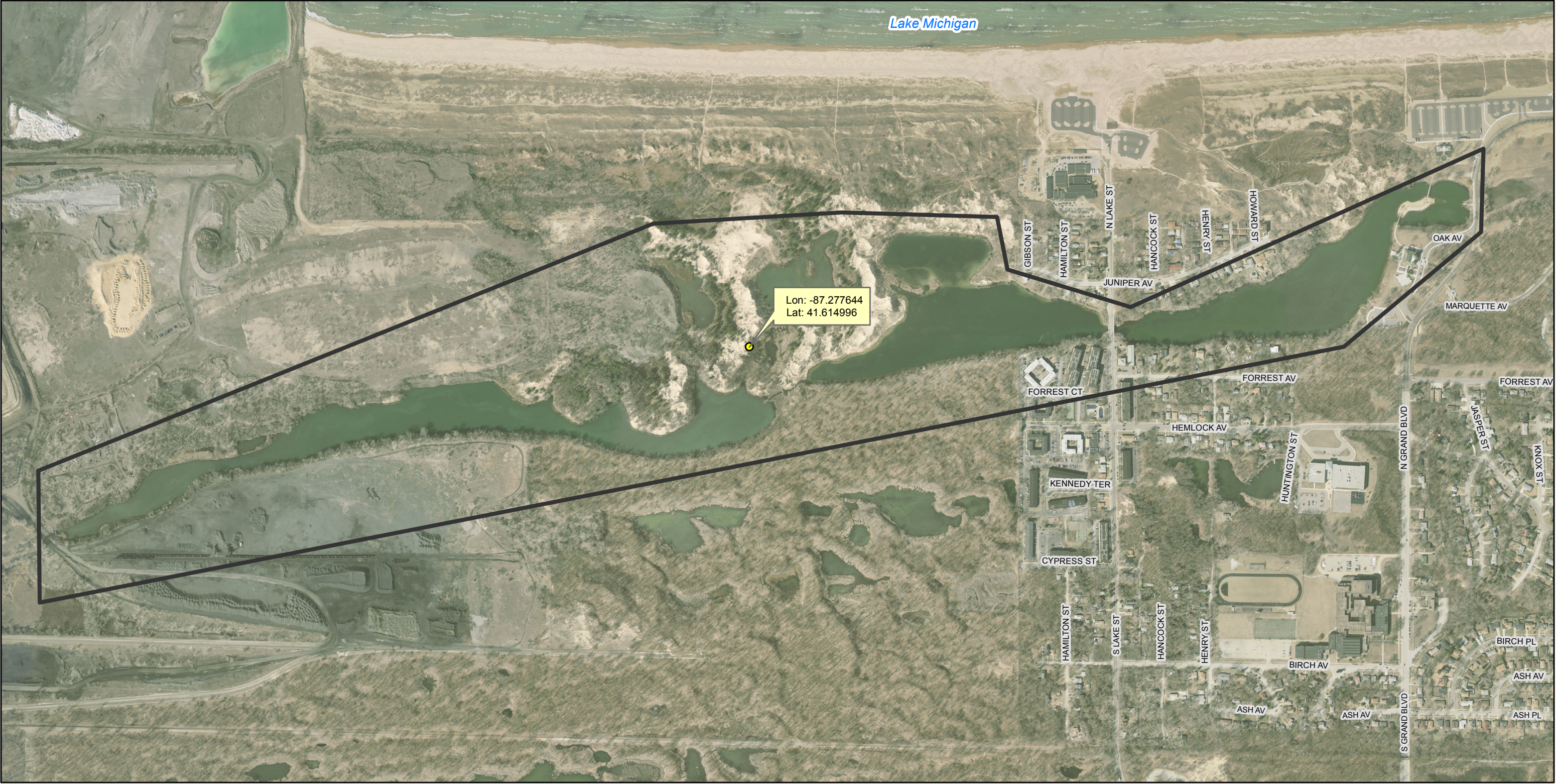
Total PCBs for this event were as high as 29.6 milligrams per kilogram (mg/kg). The United States Environmental Protection Agency (EPA) benchmark is 1 mg/kg for soil exposure. The two metals of concern, lead and arsenic, were as high as 730 mg/kg and 140 mg/kg, respectively. The EPA residential soil exposure health-based cleanup standard for lead is 400 mg/kg. The EPA benchmark for arsenic is 30 mg/kg for soil exposure. Pyrene, an SVOC, was detected as high as 8900 mg/kg. The EPA benchmark for pyrene is 2000 mg/kg for soil exposure.

Some of these contaminants, specifically PCBs, were present at concentrations within the sediment that are sufficient to cause bioaccumulation in fish tissues. These concentrations pose a human health concern. IDEM recommends that this site be considered for further investigation under CERCLA.

PCS Summary and Decision Rationale*(All text as entered on page 4)*

Elevated concentrations of several contaminants, including PCBs, SVOCs, and metals, were discovered after sediment from the three (3) lagoon portions was sampled. The presence of these harmful contaminants and lack of additional data pose a human health risk. IDEM recommends this site for additional investigation under CERCLA to determine the source(s) and extent of contamination.

IDEM Site Investigation Location Map (Site Location # 7300297)
Marquette Lagoons

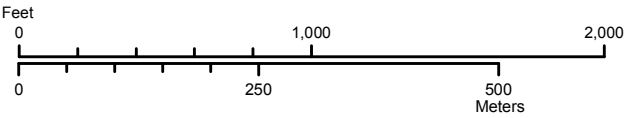
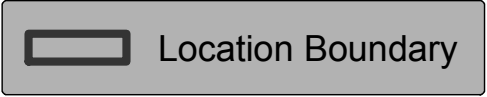
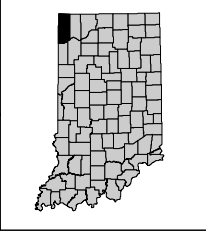


Mapped By: Matthew Canale, IDEM, Office of Land Quality, Science Services Branch, Engineering and GIS Services, February 21, 2017

Source Info: 2013 Statewide Orthophotography Program

PLSS Info: Section 36, T37N, R8W
Section 31, T37N, R7W
Section 32, T37N, R7W
Calumet Township
Gary, Indiana

Disclaimer: This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



Latitude and Longitude Information for Marquette Lagoons

Latitude: 41.614996° (North)

Longitude: -87.277644° (West)

- **Accuracy**

The digital orthophotography collected met the National Standard for Spatial Database Accuracy (NSSDA) accuracy standards as follows:

- 12-inch (one foot) pixel +/- 5 feet or better
- 6-inch pixel +/- 2.5 feet or better
- 3-inch pixel +/- 1.25 feet or better

The statewide base product for 2011-2013 Digital Orthophotography was 1-foot resolution imagery. Thirteen Indiana counties exercised the option to purchase 6-inch resolution imagery. Those counties were:

- 2011: Bartholomew, Elkhart, Harrison, Kosciusko, Marion, St. Joseph
- 2012: Allen, Floyd, Dearborn, DeKalb, Hamilton, Madison, Noble, Shelby, Steuben, Whitley
- 2013: Dubois, Lake, LaPorte, Porter, Spencer, Marion
-

In addition, several cities and Purdue University exercised the option to purchase higher resolution imagery in 2013. Those cities were:

- 6-inch: City of Bicknell and City of Vincennes
- 3-inch: City of Huntington and Purdue University

Digital Orthophotography Layer Properties:

- Title: 2011-2013 Color Orthophotos @ 3", 6", and 12" resolution
- Geographic Region: Indiana
- Pixel Source: Orthophotography
- Publisher: Indiana Geographic Information Office

- **Collection Method:**

- Using GIS software, ESRI® ArcGIS™ 10.4.1 (version 10.4.1.5686) with License Type: Advanced, coordinates for the approximate center of the site were selected. The GIS layer for the 2011-2013 Digital Orthophotography is stored on the State of Indiana Geographic Information Officer's Spatial Database Engine (SDE) data library. The Identify command was used in ArcGIS software to identify and capture the Latitude and Longitude (in decimal degrees) coordinates of the approximate center of the site.

- **Reference Datum:**

- State Plane Coordinate System 1983, 1301 Indiana East, Survey Feet
- Horizontal Datum: North American Datum 1983, Geodetic Reference System 80, Survey Feet
- Vertical Datum: North American Vertical Datum of 1988, Survey Feet

- **Reference Point:**

- The center of site is approximately 200' North and 2,500' West of the intersection of Hemlock Ave and Lake St, Gary, Indiana.

- **Source Map Scale:**

- 1:7,876

- **Point / Line / Area:**

- Point

- **Collection Date:**

- 2-22-2017

- **Verification Method:**

- Map Interpretation